

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,149,311 B2  
APPLICATION NO. : 10/072331  
DATED : December 12, 2006  
INVENTOR(S) : P.D. MacKenzie et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

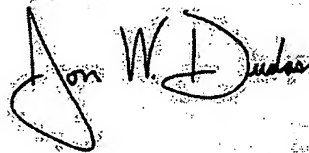
On the Title Page:

Item (75), second inventor, change "Raritan, NJ" to --Pittsburgh, PA--.

In claim 29, column 22, line 42, change "operations" to --operation--.

Signed and Sealed this

Twentieth Day of February, 2007

A handwritten signature in black ink, appearing to read "Jon W. Dudas", is written over a faint, circular embossed seal of the United States Patent and Trademark Office.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*